

TC-W606/W606M

SERVICE MANUAL

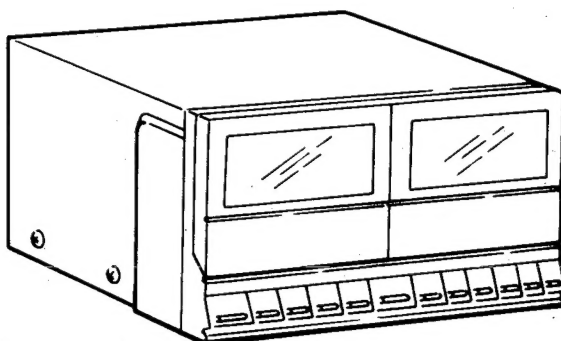
UK Model

E Model

TC-W606

AEP Model

TC-W606M



- TC-W606 is the STEREO DOUBLE CASSETTE DECK in FH-606/606R.
- TC-W606M is the STEREO DOUBLE CASSETTE DECK in MHC-1000.

SPECIFICATIONS

Recording system	4-track 2-channel stereo
Frequency response	DOLBY NR OFF (DIN) With TYPE II cassette (Sony UX-S) 60 to 14,000 Hz (± 3 dB) With TYPE I cassette (Sony HF-X) 60 to 13,000 Hz (± 3 dB)
Wow and flutter	0.1% WRMS (NAB) $\pm 0.3\%$ (DIN)
General	
Dimensions	Approx. 225 \times 120 \times 260 mm (l/h/p) (9 \times 4 $\frac{3}{4}$ \times 10 $\frac{3}{4}$ inches) incl. projecting parts and controls
Weight	Approx. 3.0 kg (6lb 11 oz)

Model Name Using Similar Mechanism	DECK A: DXA-205W
	DECK B: DXA-205W
Tape Transport Mechanism Type	DECK A: YM47CW-26
	DECK B: YM47CW-27

MODEL IDENTIFICATION

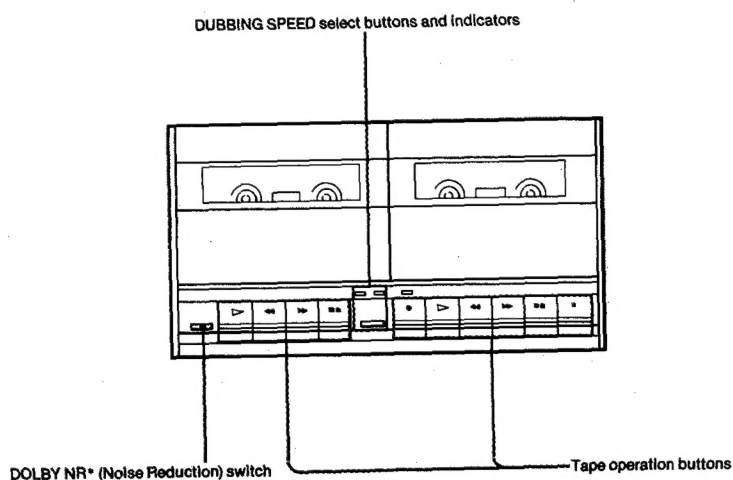
SONY® MODEL No. TC-W606

STEREO CASSETTE DECK
COMPACT COMPACT HI-DENSITY
COMPONENT SYSTEM



STEREO DOUBLE
CASSETTE DECK
SONY®

LOCATION AND FUNCTION OF PARTS AND CONTROLS



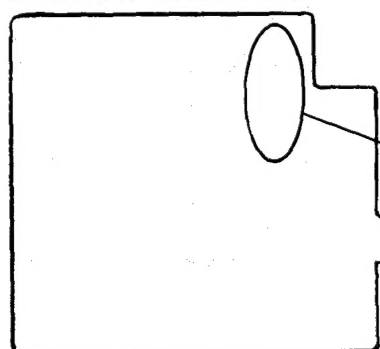
REPAIRING PRECAUTION

[To apply B+ voltage]

The power of this unit is fed from TA-606.

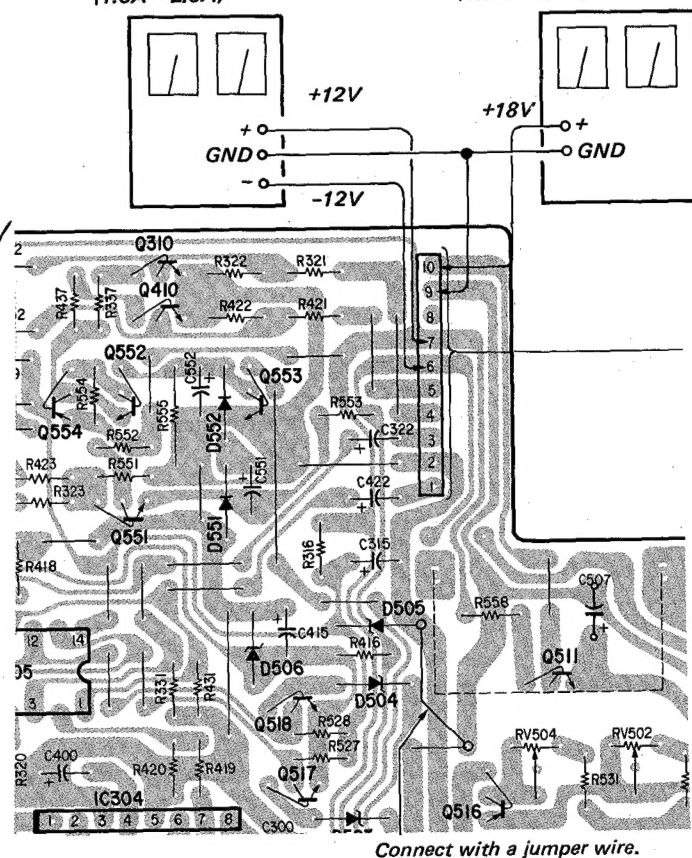
Because of this, connect the regulated power supply as illustrated below when this unit alone operates.

[Main Board] (conductor side)



regulated dc power supply
(1.5A - 2.0A)

regulated dc power supply
(1.5A - 2.0A)



SECTION 1 ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS

PRECAUTION

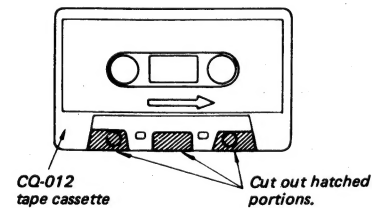
1. Clean the following parts with a denatured-alcohol-moistened swab:
record/playback/erase head rubber belts
capstan
pinch roller
idlers
2. Demagnetize the head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

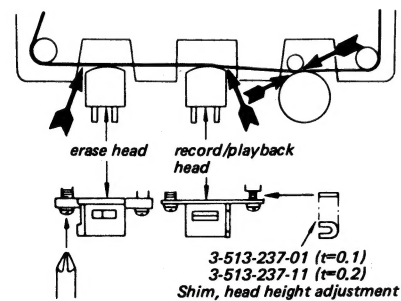
Torque	Torque meter	Meter reading
FWD	CQ-102C	30 - 70 g·cm (0.42 - 0.98 oz·inch)
FWD Back tension	CQ-102C	1.5 - 5.5 g·cm (0.02 - 0.08 oz·inch)
FF, REW	CQ-201B	more than 63 g·cm (more than 0.88 oz·inch)

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.



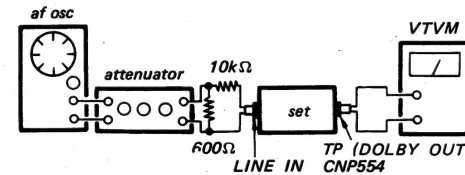
1-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.
DOLBY NR switch: OFF
ISS switch: 1

- Standard Record:
Deliver the standard input signal level to the input jack and control the attenuator to obtain the standard output signal level.

Record Mode



Standard Input Level

	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

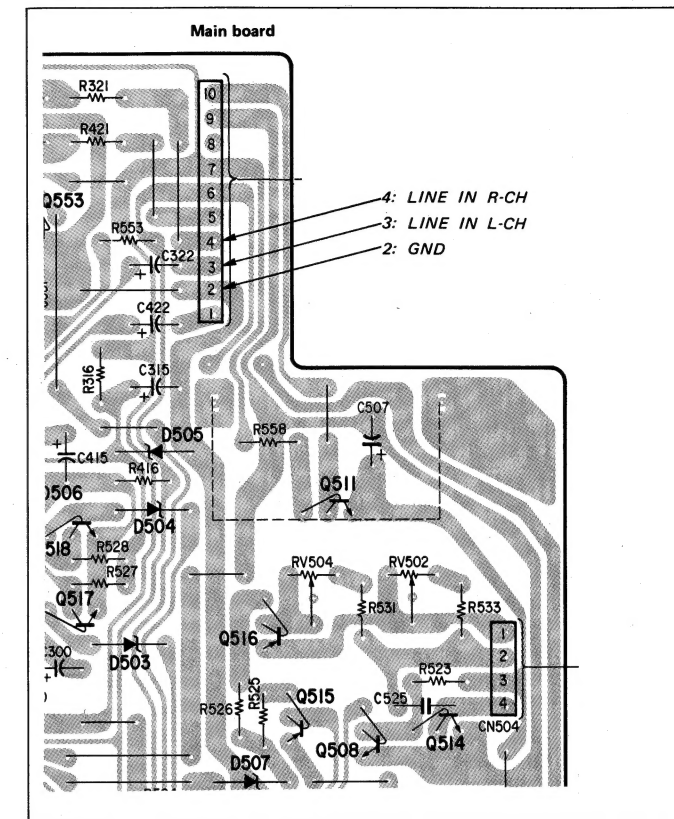
Standard Output Level

	TP (DOLBY OUT) CNP554
load impedance	NONE
output level	0.4V (-5.7dB)

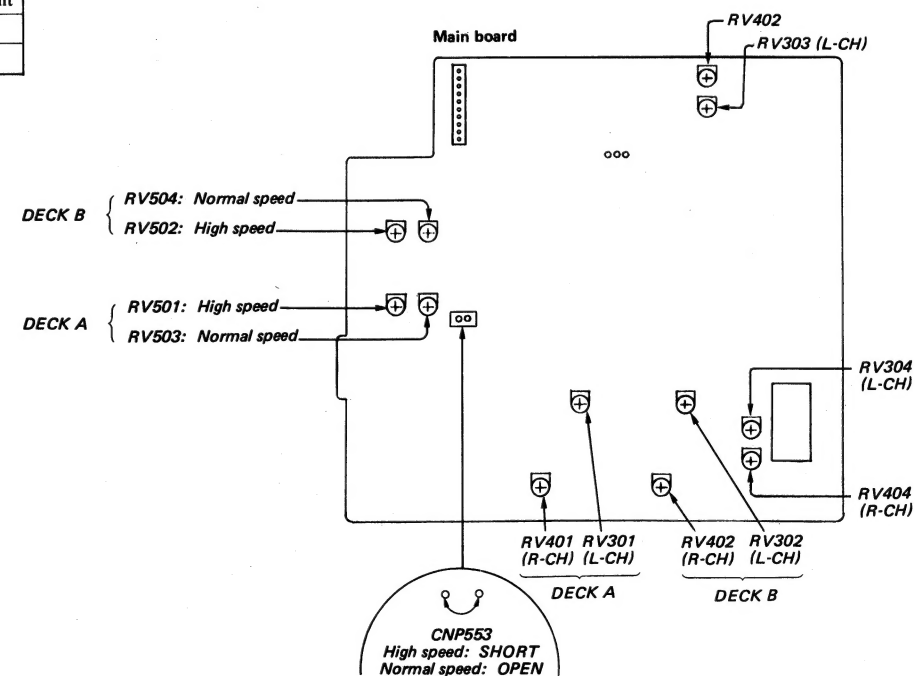
Test Tape

Type	Signal	Used for
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

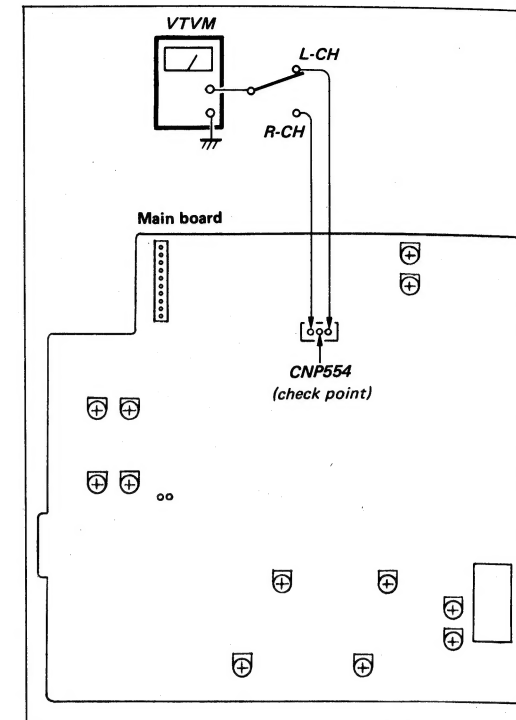
Locations of LINE IN.



Adjustment Location: Main board



Output level checkpoint

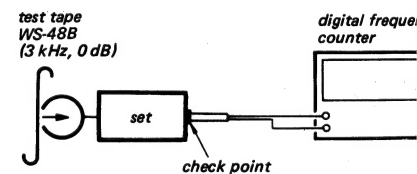


Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback

Perform high speed adjustment before normal speed adjustment.



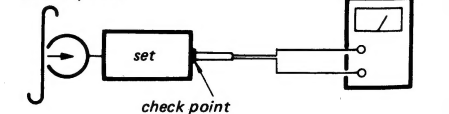
Specifications:

	Adjustment part	Test pin (CNP553)
Normal speed	Deck A RV503	OPEN
	Deck B RV504	OPEN
High speed	Deck A RV501	SHORT
	Deck B RV502	SHORT

Playback Level Adjustment DECK A DECK B

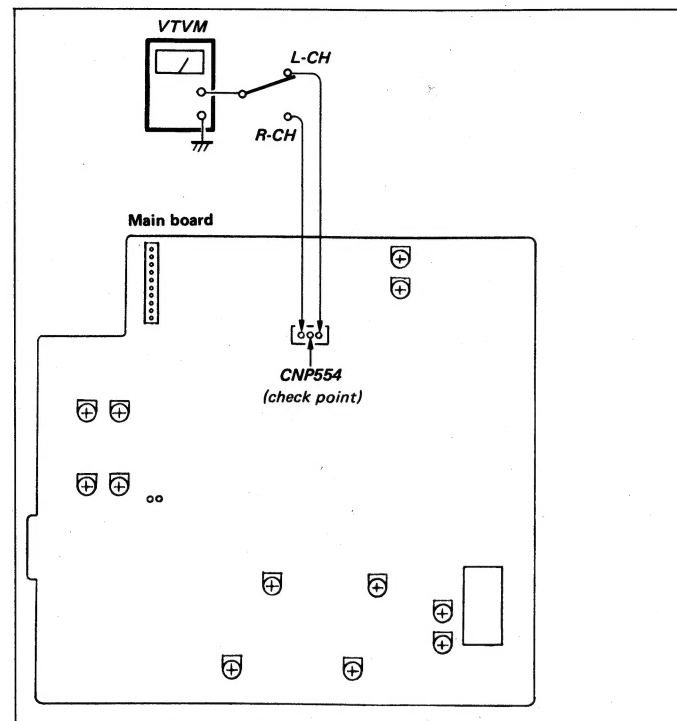
Procedure:

test tape P-4-L300 (315 Hz, 0 dB)



Adjust { DECK A: RV301 (L-CH), RV401 (R-CH) } so that the specifications are satisfied.

• Output level checkpoint

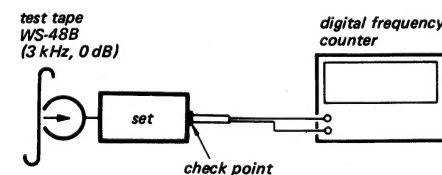


Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback

Perform high speed adjustment before normal speed adjustment.



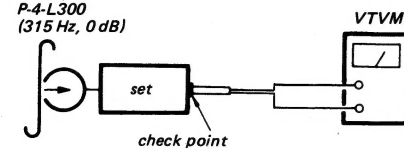
Specifications:

	Adjustment part	Test pin (CNP553)	Digital frequency counter
Normal speed	Deck A RV503	OPEN	2,970 to 2,990 Hz
	Deck B RV504		
High speed	Deck A RV501	SHORT	5,950 to 6,010 Hz
	Deck B RV502		

Playback Level Adjustment DECK A DECK B

Procedure:

test tape P-4-L300 (315 Hz, 0 dB)

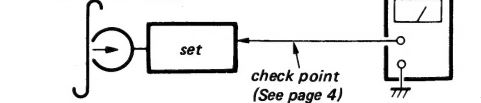


Adjust { DECK A: RV301 (L-CH), RV401 (R-CH) } so that the specifications are satisfied.

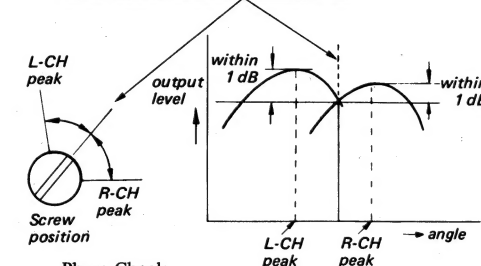
Record/playback Head Azimuth Adjustment DECK A DECK B

Procedure:

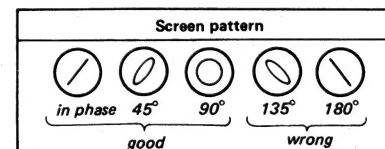
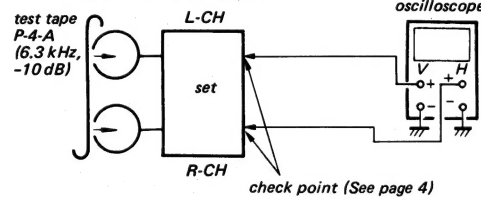
1. Mode: playback
test tape P-4-A 063 (6.3 kHz, -10 dB)



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.

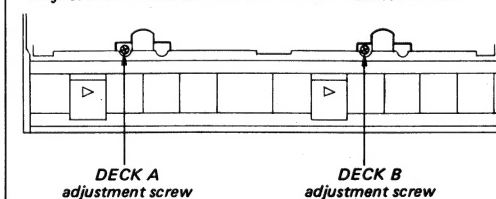


Phase Check
Mode: forward playback



- Set in the reverse mode and repeat the steps 1-2.
- After the adjustment, lock the screws with locking compound.

Adjustment Location: Remove the Cassette holder.



Specification

Check point (see page 3) level: 0.37 to 0.43 V (-6.2 dB to -5.2 dB)

Level difference between channels:
less than 0.5 dB check that the check point level does not change in playback mode while changing the mode from playback to stop several times.

Record Bias Adjustment DECK B

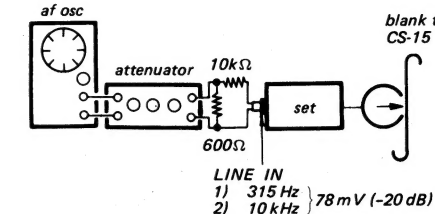
Setting:

- ATTENUATOR: standard record (See page 4)

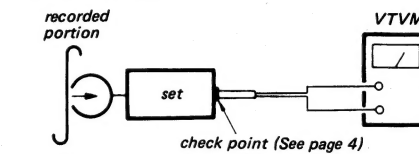
Procedure:

See page 4 for location of LINE IN.

1. Mode: record



2. Mode: playback



Confirm that the 10 kHz playback output is -0.5 dB to 0.5 dB relative to the 315 Hz output. If necessary, adjust RV304 (L-CH), RV404 (R-CH) and repeat the steps given above.

Record Level Adjustment DECK B

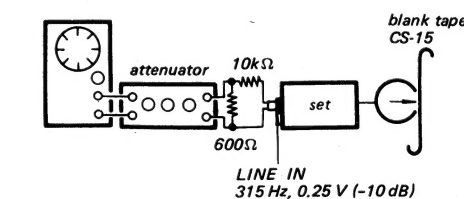
Setting:

- ATTENUATOR: standard record (See page 4)

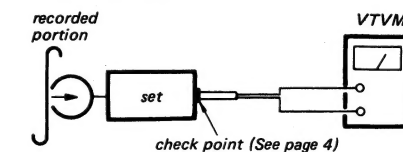
Procedure:

See page 4 for location of LINE IN.

1. Mode: record



2. Mode: playback



- Playback the signal recorded in step 1. Confirm that the signal level is within the specification below. If necessary, adjust RV303 (L-CH), RV403 (R-CH) and repeat the steps 1 - 3.

Specification:

Check point (see page 4) level: 0.37 V to 0.43 V (-6.2 dB to -5.2 dB)

SECTION 2 DIAGRAMS

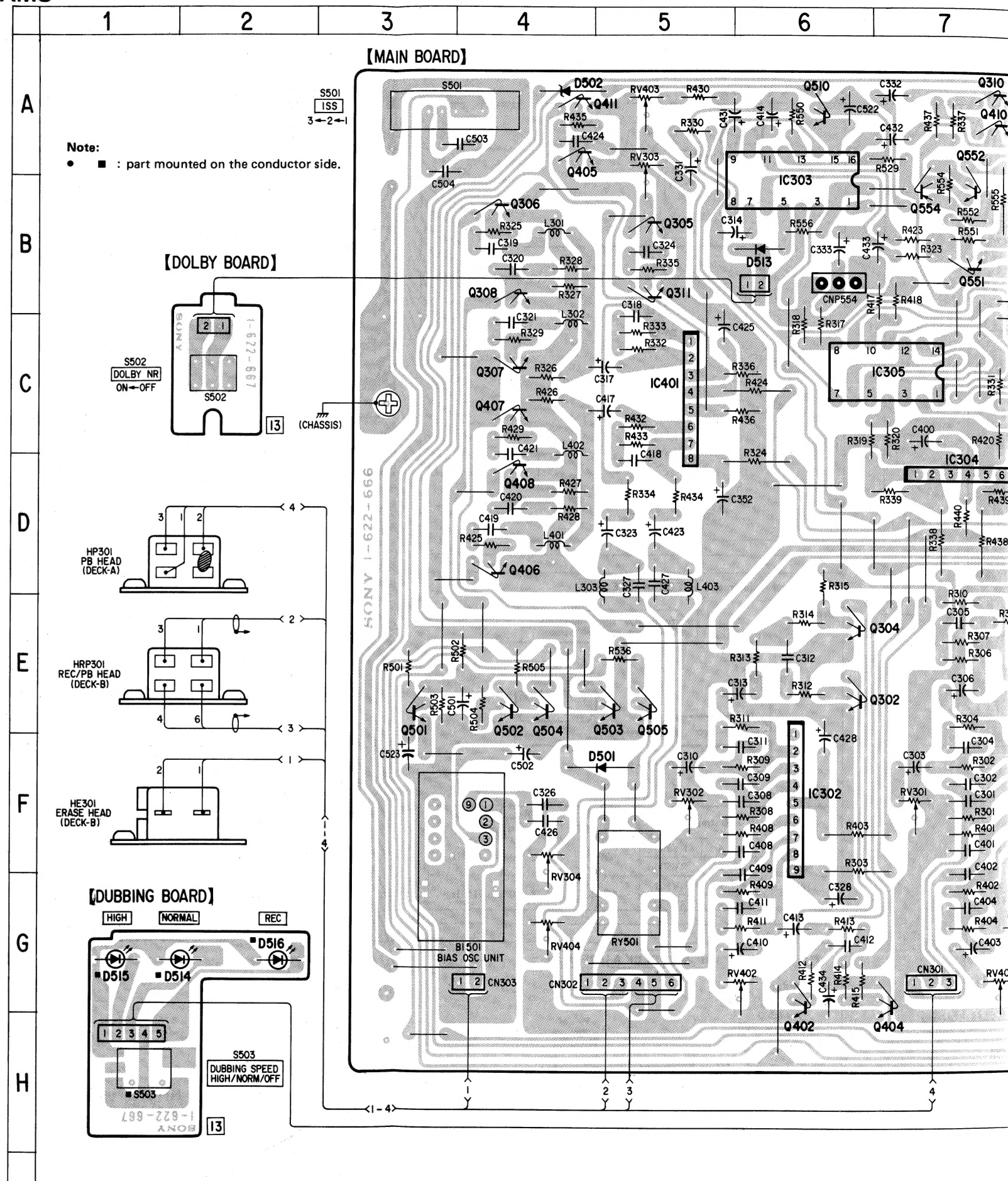
2-1. PRINTED WIRING BOARDS —Main Board—

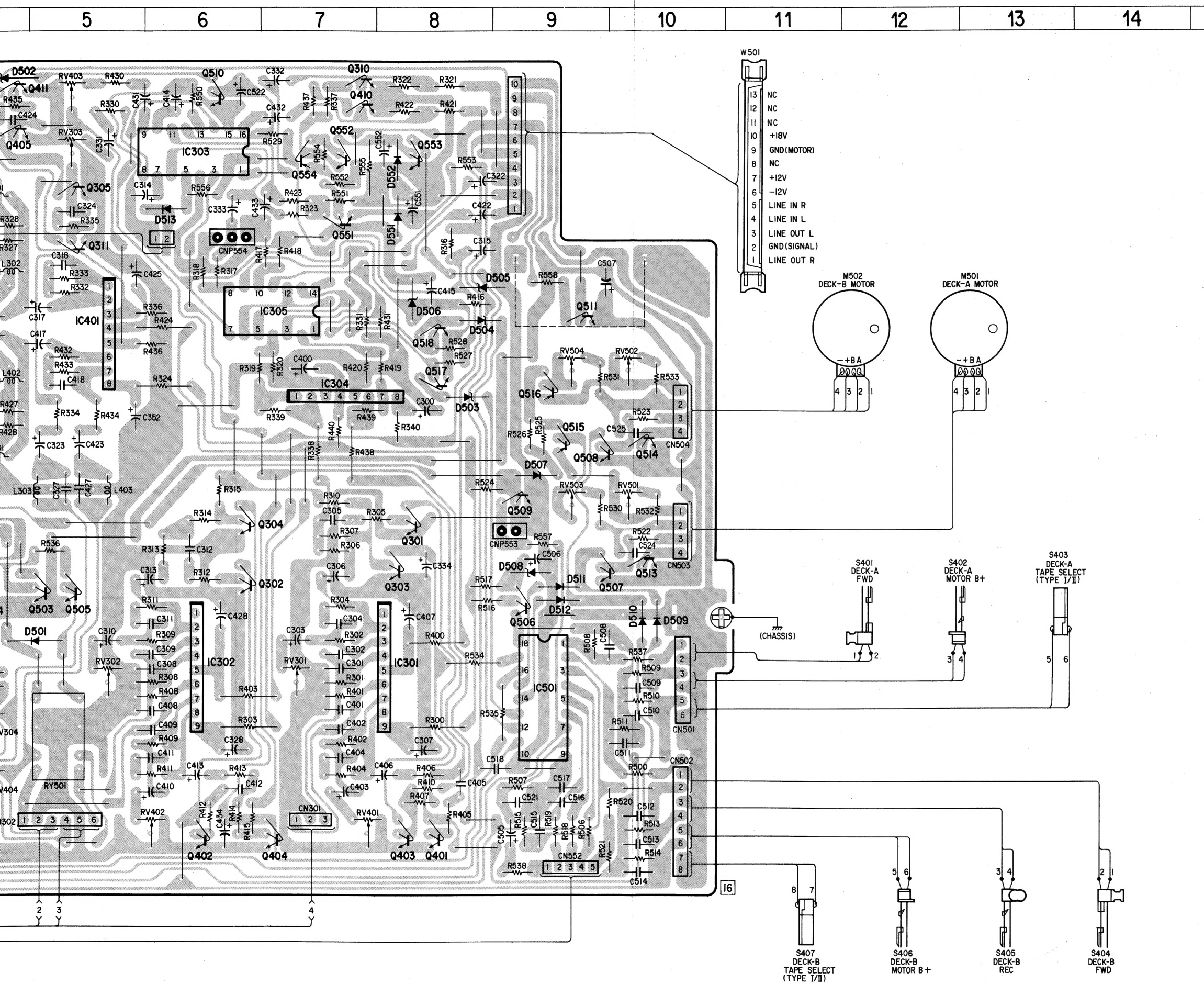
• SEMICONDUCTOR LOCATIONS

Ref. No.	Location	Ref. No.	Location
D501	F-5	Q308	B-4
D502	A-4	Q310	A-7
D503	D-8	Q311	B-5
D504	C-8	Q401	H-8
D505	C-8	Q402	H-6
D506	C-8	Q403	H-8
D507	D-9	Q404	H-7
D508	E-9	Q305	A-4
D509	F-10	Q406	D-4
D510	F-10	Q407	C-4
D511	E-9	Q408	D-4
D512	E-9	Q410	A-7
D513	B-6	Q411	A-5
D514	G-1	Q501	E-3
D515	G-1	Q502	E-4
D516	G-2	Q503	E-5
D551	B-8	Q504	E-4
D552	B-8	Q505	E-5
		D506	F-9
		Q507	E-9
		Q508	D-9
		Q509	E-9
		Q510	A-6
		Q511	C-9
		Q513	E-10
		Q514	D-10
		Q515	D-9
		Q516	D-9
		Q517	C-8
		Q518	C-8
		Q551	B-7
		Q552	A-7
		Q553	A-8
		Q554	B-7
IC301	F-8		
IC302	F-6		
IC303	B-6		
IC304	D-7		
IC305	C-7		
IC401	C-5		
IC501	F-9		

• SEMICONDUCTOR LEAD LAYOUTS

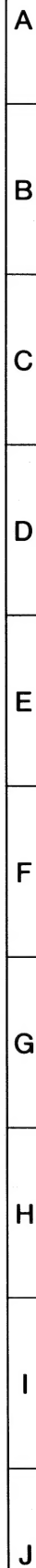
CXA1101P (Top view)	2SA1175 (Top view)	2SD1585-K (Top view)
M4066BP (Top view)	2SC634SP 2SC3400 (Top view)	HZ3CLL HZ6B2L HZ6C2L (Top view)
M5218L (Top view)	2SC2001 (Top view)	PR2222S-B1 (Top view)
μPC4570HA (Top view)	2SD774 (Top view)	US1060M (Top view)
μPD65005C-112 (Top view)		





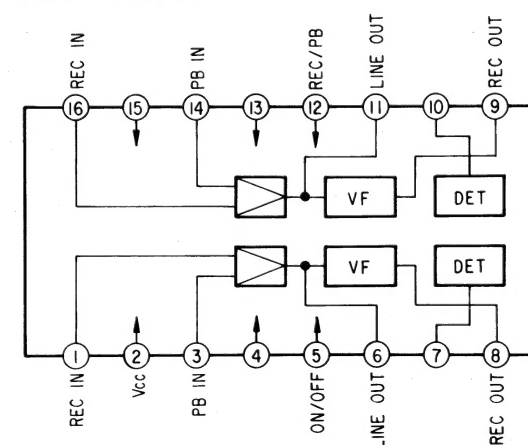
[illegible]

[illegible]



- **Switches:**

IC303 CXA1101P



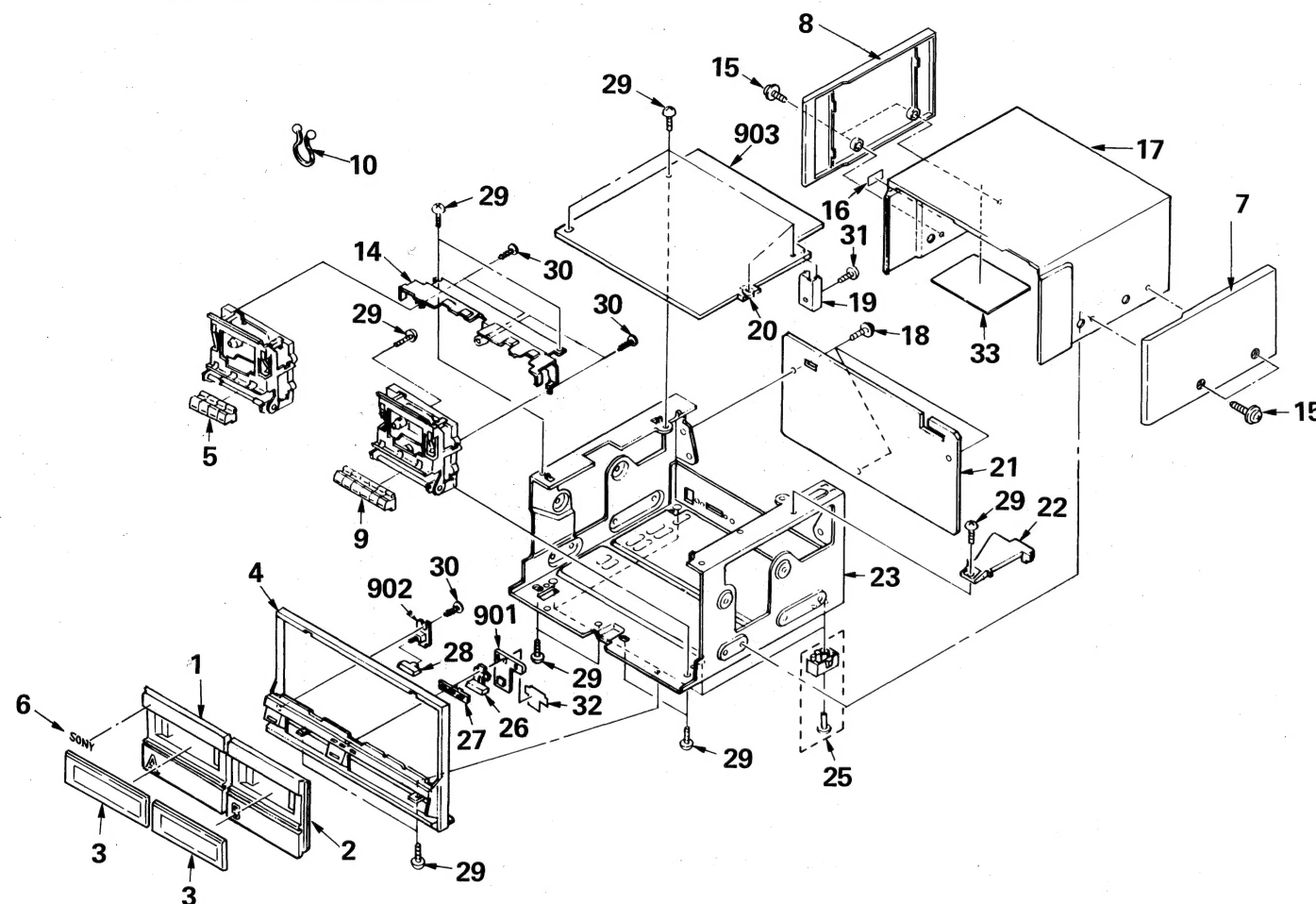
SECTION 3

EXPLODED VIEWS AND PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

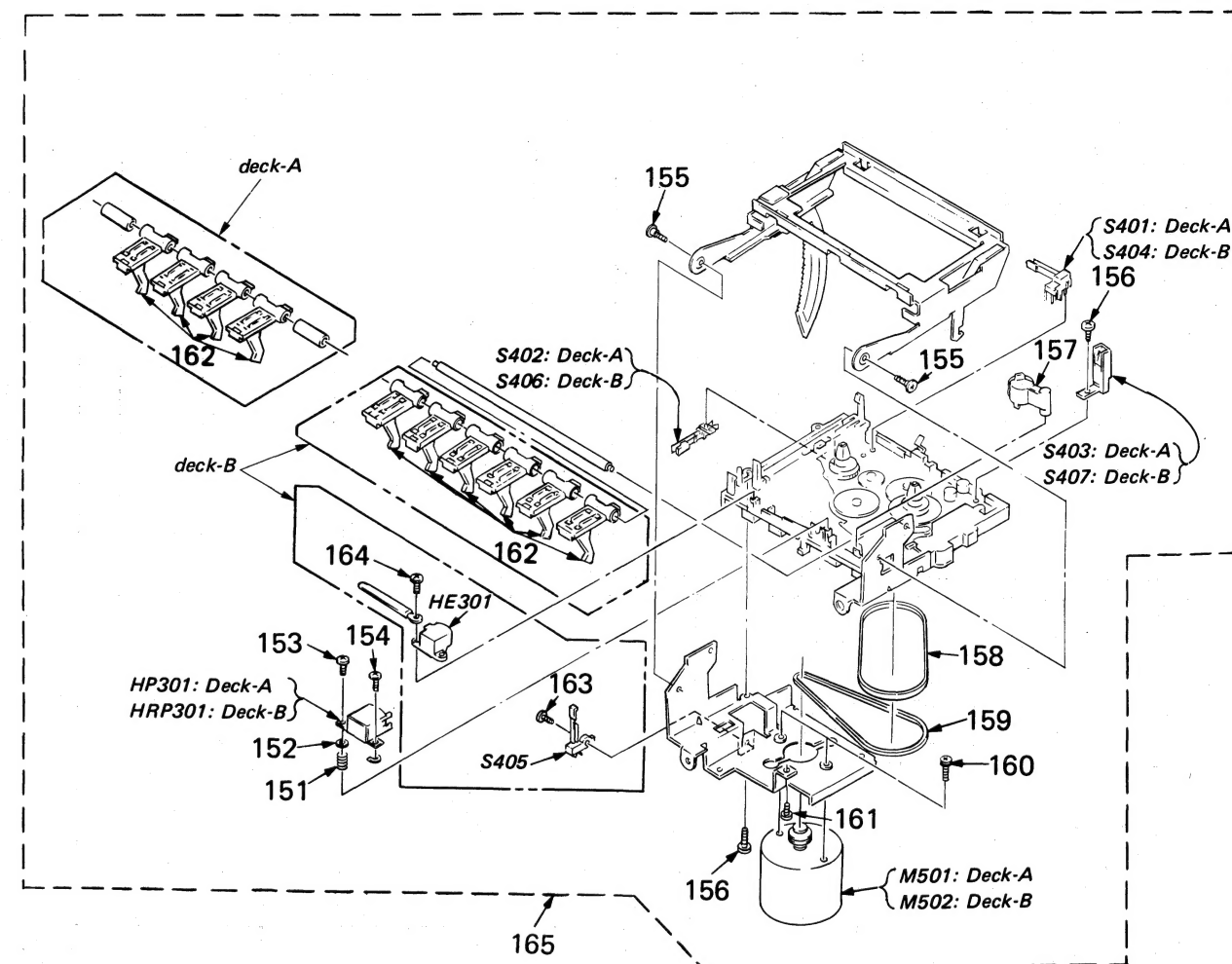
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)
↑ Cabinet's Color ↑ Parts' Color



No.	Part No.	Description	Remarks
1	3-340-153-21	(E)LID (A), CASSETTE (GOLD)	
	3-340-153-31	(AEP, UK) ..LID (A), CASSETTE (GRY)	
2	3-340-154-01	(E)LID (B), CASSETTE (GOLD)	
	3-340-154-11	(AEP, UK) ..LID (B), CASSETTE (GRY)	
3	3-340-152-01	WINDOW (CASSETTE)	
4	4-920-821-11	(E)PANEL, FRONT (GOLD)	
	4-920-821-21	(AEP, UK) ..PANEL, FRONT (GRY)	
5	3-340-155-01	(E)BUTTON (A) (GOLD)	
	3-340-155-11	(AEP, UK) ..BUTTON (B) (GRY)	
6	★4-920-869-01	EMBLEM, SONY	
7	3-346-340-01	(TC-W606M) ...PLATE (C-RIGHT) SIDE	
8	3-346-341-01	(TC-W606M) ...PLATE (C-LEFT) SIDE	
9	3-340-156-01	(E)BUTTON (B)	
	3-340-156-11	(AEP, UK) ..BUTTON (B)	
10	2-056-666-00	(AEP, UK) ..PURSE (8, DIA)	
	3-701-417-00	(E)PURSE (11, DIA)	
14	★4-920-819-01	JOINT	
15	3-704-366-01	(UK, E)SCREW CASE (M 3X8)	
	4-886-821-51	(AEP)SCREW CASE (M 3X14)	
16	★3-346-321-01	LABEL, MODEL NUMBER	

No.	Part No.	Description	Remarks
17	4-920-818-01	CASE	
18	2-383-566-00	SCREW	
19	★4-880-403-21	HEAT SINK	
20	4-870-539-00	PLATE, GROUND	
21	★4-920-820-01	PLATE, JACK	
22	★4-920-817-01	HOLDER, WIRE	
23	★4-920-822-01	CHASSIS	
25	X-4902-937-1	FOOT ASSY, RUBBER	
26	4-920-811-01	BUTTON, DUBBING	
27	4-919-698-01	INDICATOR	
28	4-920-810-01	BUTTON, DOLBY	
29	7-682-147-01	SCREW +BVT 3X6 (S)	
30	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
31	7-682-548-41	SCREW +BVT 3X8 (S)	
32	★4-920-836-01	SHEET, INSULATING	
33	★4-920-843-02	PLATE SHIELD	
901	★1-622-668-11	PC BOARD, DUBBING	
902	★1-622-667-11	PC BOARD, DOLBY	
903	★A-2095-623-A	MOUNTED PCB, MAIN	

(2)



No.	Part No.	Description	Remarks
151	4-894-955-01	C SPRING	
152	3-390-823-01	WASHER, F	
153	7-621-905-65	SCREW, TOTSU P 2X8	
154	7-621-255-15	SCREW +P 2X3	
155	3-392-121-01	SCREW, STEP	
156	7-685-133-19	SCREW +P 2.6X6 TYPE1	
157	3-390-805-01	ROLLER ASSY, PINCH	
158	3-390-807-01	BELT	
159	3-390-816-01	BELT, SQUARE	
160	7-628-253-90	SCREW +PS 2.6X4	
161	7-682-147-01	SCREW +PTT 3X6 (S)	
162	4-894-971-01	BUTTON LEVER	
163	3-392-102-01	SCREW, D PAN	
164	7-685-781-04	SCREW +PTT 2X4 (S)	

No.	Part No.	Description	Remarks
165	A-2100-381-A	(DECK B)...MD ASSY (TCM-YM47CW-26)	
	A-2100-382-A	(DECK A)...MD ASSY (TCM-YM47CW-27)	
HE301	1-543-261-11	(DECK B)...HEAD, ERASE (886-01-24)	
HP301	1-543-424-11	(DECK A)...HEAD, MAGNETIC (PB)	
HRP301	1-543-424-11	(DECK B)...HEAD, MAGNETIC (REC/PB)	
M501	X-3390-801-1	(DECK A)...MOTOR ASSY	
M502	X-3390-801-1	(DECK B)...MOTOR ASSY	
S401	1-570-716-11	(DECK A)...SWITCH, LEAF (FWD)	
S402	1-570-715-11	(DECK A)...SWITCH, LEAF (MOTOR B+)	
S403	1-571-216-11	(DECK A)...SWITCH, LEAF (TAPE SELECT)	
S404	1-570-716-11	(DECK B)...SWITCH, LEAF (FWD)	
S405	1-571-260-11	(DECK B)...SWITCH, LEAF (REC)	
S406	1-570-715-11	(DECK B)...SWITCH, LEAF (MOTOR B+)	
S407	1-571-216-11	(DECK B)...SWITCH, LEAF (TAPE SELECT)	

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA...: μ A..., UPA...: μ PA...,UPC...: μ PC, UPD...: μ PD...ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-622-668-11	PC BOARD, DUBBING			
902	*1-622-667-11	PC BOARD, DOLBY			
903	*A-2095-623-A	MOUNTED PCB, MAIN			
BI501	1-464-797-11	OSCILLATION UNIT, BIAS			
C300	1-123-332-00	ELECT	47MF	20%	16V
C301	1-162-290-31	CERAMIC	470PF	10%	50V
C302	1-162-207-31	CERAMIC	22PF	5%	50V
C303	1-124-443-00	ELECT	100MF	20%	10V
C304	1-130-487-00	MYLAR	0.022MF	5%	50V
C305	1-130-488-00	MYLAR	0.027MF	5%	50V
C306	1-124-925-11	ELECT	2.2MF	20%	50V
C307	1-123-332-00	ELECT	47MF	20%	16V
C308	1-162-293-31	CERAMIC	820PF	10%	50V
C309	1-162-207-31	CERAMIC	22PF	5%	50V
C310	1-124-443-00	ELECT	100MF	20%	10V
C311	1-130-487-00	MYLAR	0.022MF	5%	50V
C312	1-130-488-00	MYLAR	0.027MF	5%	50V
C313	1-124-925-11	ELECT	2.2MF	20%	50V
C314	1-131-346-00	TANTALUM	0.68MF	10%	35V
C315	1-123-875-11	ELECT	10MF	20%	50V
C317	1-124-443-00	ELECT	100MF	20%	10V
C318	1-130-492-11	MYLAR	0.056MF	5%	50V
C319	1-130-483-00	MYLAR	0.01MF	5%	50V
C320	1-130-483-00	MYLAR	0.01MF	5%	50V
C321	1-130-479-00	MYLAR	0.0047MF	5%	50V
C322	1-124-925-11	ELECT	2.2MF	20%	50V
C323	1-124-905-11	ELECT	3.3MF	20%	50V
C324	1-130-483-00	MYLAR	0.01MF	5%	50V
C325	1-123-332-00	ELECT	47MF	20%	16V
C326	1-162-286-31	CERAMIC	220PF	10%	50V
C327	1-162-282-31	CERAMIC	100PF	10%	50V
C328	1-123-332-00	ELECT	47MF	20%	16V
C331	1-124-791-11	ELECT	1MF	20%	50V
C332	1-124-791-11	ELECT	1MF	20%	50V
C333	1-124-925-11	ELECT	2.2MF	20%	50V
C334	1-123-875-11	ELECT	10MF	20%	50V
C400	1-123-332-00	ELECT	47MF	20%	16V
C401	1-162-290-31	CERAMIC	470PF	10%	50V
C402	1-162-207-31	CERAMIC	22PF	5%	50V
C403	1-124-443-00	ELECT	100MF	20%	10V
C404	1-130-487-00	MYLAR	0.022MF	5%	50V
C405	1-130-488-00	MYLAR	0.027MF	5%	50V
C406	1-124-925-11	ELECT	2.2MF	20%	50V
C407	1-123-332-00	ELECT	47MF	20%	16V
C408	1-162-293-31	CERAMIC	820PF	10%	50V
C409	1-162-207-31	CERAMIC	22PF	5%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C410	1-124-443-00	ELECT	100MF	20%	10V
C411	1-130-487-00	MYLAR	0.022MF	5%	50V
C412	1-130-488-00	MYLAR	0.027MF	5%	50V
C413	1-124-925-11	ELECT	2.2MF	20%	50V
C414	1-131-346-00	TANTALUM	0.68MF	10%	35V
C415	1-123-875-11	ELECT	10MF	20%	50V
C417	1-124-443-00	ELECT	100MF	20%	10V
C418	1-130-492-11	MYLAR	0.056MF	5%	50V
C419	1-130-483-00	MYLAR	0.01MF	5%	50V
C420	1-130-483-00	MYLAR	0.01MF	5%	50V
C421	1-130-479-00	MYLAR	0.0047MF	5%	50V
C422	1-124-925-11	ELECT	2.2MF	20%	50V
C423	1-124-905-11	ELECT	3.3MF	20%	50V
C424	1-130-483-00	MYLAR	0.01MF	5%	50V
C425	1-123-332-00	ELECT	47MF	20%	16V
C426	1-162-286-31	CERAMIC	220PF	10%	50V
C427	1-162-282-31	CERAMIC	100PF	10%	50V
C428	1-123-332-00	ELECT	47MF	20%	16V
C431	1-124-791-11	ELECT	1MF	20%	50V
C432	1-124-791-11	ELECT	1MF	20%	50V
C433	1-124-925-11	ELECT	2.2MF	20%	50V
C434	1-123-875-11	ELECT	10MF	20%	50V
C501	1-124-791-11	ELECT	1MF	20%	50V
C502	1-124-925-11	ELECT	2.2MF	20%	50V
C503	1-106-351-00	MYLAR	0.0022MF	10%	100V
C504	1-106-351-00	MYLAR	0.0022MF	10%	100V
C505	1-124-927-11	ELECT	4.7MF	20%	50V
C506	1-124-902-00	ELECT	0.47MF	20%	50V
C507	1-123-332-00	ELECT	47MF	20%	16V
C508	1-161-379-00	CERAMIC	0.01MF	30%	16V
C509	1-161-379-00	CERAMIC	0.01MF	30%	16V
C510	1-161-379-00	CERAMIC	0.01MF	30%	16V
C511	1-161-379-00	CERAMIC	0.01MF	30%	16V
C512	1-161-379-00	CERAMIC	0.01MF	30%	16V
C513	1-161-379-00	CERAMIC	0.01MF	30%	16V
C514	1-161-379-00	CERAMIC	0.01MF	30%	16V
C515	1-162-379-00	CERAMIC	0.01MF	30%	16V
C516	1-161-379-00	CERAMIC	0.01MF	30%	16V
C517	1-161-379-00	CERAMIC	0.01MF	30%	16V
C518	1-161-379-00	CERAMIC	0.01MF	30%	16V
C521	1-162-282-31	CERAMIC	100PF	10%	50V
C522	1-123-875-11	ELECT	10MF	20%	50V
C523	1-123-875-11	ELECT	10MF	20%	50V
C524	1-162-290-31	CERAMIC	470PF	10%	50V
C525	1-162-290-31	CERAMIC	470PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C551	1-123-875-11	ELECT	10MF	20%	50V
C552	1-123-875-11	ELECT	10MF	20%	50V
CNP301*1	564-506-11	PLUG, CONNECTOR 3P			
CNP302*1	564-509-11	PLUG, CONNECTOR 6P			
CNP303*1	564-505-11	PLUG, CONNECTOR 2P			
CNP501*1	564-509-11	PLUG, CONNECTOR 6P			
CNP502*1	564-511-11	PLUG, CONNECTOR 8P			
CNP503*1	564-507-11	PLUG, CONNECTOR 4P			
CNP504*1	564-507-21	PLUG, CONNECTOR 4P			
CNP551*1	564-336-00	PIN, CONNECTOR 2P			
CNP552*1	564-339-00	PIN, CONNECTOR 5P			
CNP553*1	560-060-00	PIN, CONNECTOR 2P			
CNP554*1	560-061-00	PIN, CONNECTOR 3P			
D501	8-719-000-26	DIODE US1060M			
D502	8-719-910-75	DIODE HZ7B2L			
D503	8-719-910-75	DIODE HZ7B2L			
D504	8-719-910-75	DIODE HZ7B2L			
D505	8-719-910-68	DIODE HZ6C2L			
D506	8-719-910-68	DIODE HZ6C2L			
D507	8-719-942-33	DIODE HZ3CLL			
D508	8-719-910-65	DIODE HZ6B2L			
D509	8-719-000-26	DIODE US1060M			
D510	8-719-000-26	DIODE US1060M			
D511	8-719-000-26	DIODE US1060M			
D512	8-719-000-26	DIODE US1060M			
D513	8-719-000-26	DIODE US1060M			
D514	8-719-913-36	DIODE PR2222S-B1			
D515	8-719-913-36	DIODE PR2222S-B1			
D516	8-719-913-36	DIODE PR2222S-B1			
D551	8-719-000-26	DIODE US1060M			
D552	8-719-000-26	DIODE US1060M			
HE301	1-543-261-11	HEAD, ERASE (886-01-24)			
HP301	1-543-424-11	HEAD, MAGNETIC (PB)			
HRP301	1-543-424-11	HEAD, MAGNETIC (REC/PB)			
IC301	8-759-106-61	IC UPC4570HA			
IC302	8-759-106-61	IC UPC4570HA			
IC303	8-752-031-83	IC CXA1101P			
IC304	8-759-600-02	IC M5218L			
IC305	8-759-601-43	IC M4066BP			
IC401	8-759-600-02	IC M5218L			
IC501	8-759-112-88	IC UPD65005C-112			
L301	1-410-774-11	MICRO INDUCTOR 8.2MMH			
L302	1-410-772-11	MICRO INDUCTOR 5.6MMH			
L303	1-410-779-21	MICRO INDUCTOR 22MMH			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
L401	1-410-774-11	MICRO INDUCTOR 8.2MMH			
L402	1-410-772-11	MICRO INDUCTOR 5.6MMH			
L403	1-410-779-21	MICRO INDUCTOR 22MMH			
M501	X-3390-801-1	MOTOR ASSY			
M502	X-3390-801-1	MOTOR ASSY			
Q301	8-729-806-34	TRANSISTOR 2SC3400			
Q302	8-729-806-34	TRANSISTOR 2SC3400			
Q303	8-729-806-34	TRANSISTOR 2SC3400			
Q304	8-729-806-34	TRANSISTOR 2SC3400			
Q305	8-729-806-34	TRANSISTOR 2SC3400			
Q306	8-729-806-34	TRANSISTOR 2SC3400			
Q307	8-729-806-34	TRANSISTOR 2SC3400			
Q308	8-729-806-34	TRANSISTOR 2SC3400			
Q310	8-729-600-27	TRANSISTOR 2SC634SP			
Q311	8-729-806-34	TRANSISTOR 2SC3400			
Q401	8-729-806-34	TRANSISTOR 2SC3400			
Q402	8-729-806-34	TRANSISTOR 2SC3400			
Q403	8-729-806-34	TRANSISTOR 2SC3400			
Q404	8-729-806-34	TRANSISTOR 2SC3400			
Q405	8-729-806-34	TRANSISTOR 2SC3400			
Q406	8-729-806-34	TRANSISTOR 2SC3400			
Q407	8-729-806-34	TRANSISTOR 2SC3400			
Q408	8-729-806-34	TRANSISTOR 2SC3400			
Q410	8-729-600-27	TRANSISTOR 2SC634SP			
Q411	8-729-806-34	TRANSISTOR 2SC3400			
Q501	8-729-100-13	TRANSISTOR 2SC2001			
Q502	8-729-806-34	TRANSISTOR 2SC3400			
Q503	8-729-806-34	TRANSISTOR 2SC3400			
Q504	8-729-806-34	TRANSISTOR 2SC3400			
Q505	8-729-806-34	TRANSISTOR 2SC3400			
Q506	8-729-600-27	TRANSISTOR 2SC634SP			
Q507	8-729-806-34	TRANSISTOR 2SC3400			
Q508	8-729-806-34	TRANSISTOR 2SC3400			
Q509	8-729-806-34	TRANSISTOR 2SC3400			
Q510	8-729-806-34	TRANSISTOR 2SC3400			
Q511	8-729-107-26	TRANSISTOR 2SD1585-K			
Q513	8-729-117-43	TRANSISTOR 2SD774			
Q514	8-729-117-43	TRANSISTOR 2SD774			
Q515	8-729-117-54	TRANSISTOR 2SA1175			
Q516	8-729-117-54	TRANSISTOR 2SA1175			
Q517	8-729-806-34	TRANSISTOR 2SC3400			
Q518	8-729-806-34	TRANSISTOR 2SC3400			
Q551	8-729-600-27	TRANSISTOR 2SC634SP			
Q552	8-729-600-27	TRANSISTOR 2SC634SP			
Q553	8-729-806-34	TRANSISTOR 2SC3400			
Q554	8-729-117-54	TRANSISTOR 2SA1175			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R300	1-249-409-11	CARBON	220	5%	1/6W
R301	1-247-887-00	CARBON	220K	5%	1/4W
R302	1-247-883-00	CARBON	150K	5%	1/4W
R303	1-249-409-11	CARBON	220	5%	1/6W
R304	1-215-440-00	CARBON	6.2K	5%	1/6W
R305	1-249-422-11	CARBON	2.7K	5%	1/6W
R306	1-249-421-11	CARBON	2.2K	5%	1/6W
R307	1-249-433-11	CARBON	22K	5%	1/6W
R308	1-247-887-00	CARBON	220K	5%	1/4W
R309	1-247-883-00	CARBON	150K	5%	1/4W
R310	1-249-433-11	CARBON	22K	5%	1/6W
R311	1-215-440-00	CARBON	6.2K	5%	1/6W
R312	1-249-422-11	CARBON	2.7K	5%	1/6W
R313	1-249-421-11	CARBON	2.2K	5%	1/6W
R314	1-249-433-11	CARBON	22K	5%	1/6W
R315	1-249-433-11	CARBON	22K	5%	1/6W
R316	1-249-413-11	CARBON	470	5%	1/6W
R317	1-249-421-11	CARBON	2.2K	5%	1/6W
R318	1-249-423-11	CARBON	3.3K	5%	1/6W
R319	1-249-421-11	CARBON	2.2K	5%	1/6W
R320	1-247-887-00	CARBON	220K	5%	1/4W
R321	1-249-441-11	CARBON	100K	5%	1/6W
R322	1-247-849-00	CARBON	5.6K	5%	1/6W
R323	1-249-433-11	CARBON	22K	5%	1/6W
R324	1-249-409-11	CARBON	220	5%	1/6W
R325	1-249-402-11	CARBON	56	5%	1/6W
R326	1-249-423-11	CARBON	3.3K	5%	1/6W
R327	1-249-430-11	CARBON	12K	5%	1/6W
R328	1-249-423-11	CARBON	3.3K	5%	1/6W
R329	1-249-411-11	CARBON	330	5%	1/6W
R330	1-249-431-11	CARBON	15K	5%	1/6W
R331	1-247-887-00	CARBON	220K	5%	1/4W
R332	1-249-435-11	CARBON	33K	5%	1/6W
R333	1-249-435-11	CARBON	33K	5%	1/6W
R334	1-249-429-11	CARBON	10K	5%	1/6W
R335	1-249-427-11	CARBON	6.8K	5%	1/6W
R336	1-249-441-11	CARBON	100K	5%	1/6W
R337	1-249-417-11	CARBON	1K	5%	1/6W
R338	1-249-437-11	CARBON	47K	5%	1/6W
R339	1-247-883-00	CARBON	150K	5%	1/6W
R340	1-249-409-11	CARBON	220	5%	1/6W
R400	1-249-409-11	CARBON	220	5%	1/6W
R401	1-247-887-00	CARBON	220K	5%	1/4W
R402	1-247-883-00	CARBON	150K	5%	1/4W
R403	1-249-409-11	CARBON	220	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R404	1-215-440-00	CARBON	6.2K	5%	1/6W
R405	1-249-422-11	CARBON	2.7K	5%	1/6W
R406	1-249-421-11	CARBON	2.2K	5%	1/6W
R407	1-249-433-11	CARBON	22K	5%	1/6W
R408	1-247-887-00	CARBON	220K	5%	1/4W
R409	1-247-883-00	CARBON	150K	5%	1/4W
R410	1-249-433-11	CARBON	22K	5%	1/6W
R411	1-215-440-00	CARBON	6.2K	5%	1/6W
R412	1-249-422-11	CARBON	2.7K	5%	1/6W
R413	1-249-421-11	CARBON	2.2K	5%	1/6W
R414	1-249-433-11	CARBON	22K	5%	1/6W
R415	1-249-433-11	CARBON	22K	5%	1/6W
R416	1-249-413-11	CARBON	470	5%	1/6W
R417	1-249-421-11	CARBON	2.2K	5%	1/6W
R418	1-249-423-11	CARBON	3.3K	5%	1/6W
R419	1-249-421-11	CARBON	2.2K	5%	1/6W
R420	1-247-887-00	CARBON	220K	5%	1/4W
R421	1-249-441-11	CARBON	100K	5%	1/6W
R422	1-247-849-00	CARBON	5.6K	5%	1/6W
R423	1-249-433-11	CARBON	22K	5%	1/6W
R424	1-249-409-11	CARBON	220	5%	1/6W
R425	1-249-402-11	CARBON	56	5%	1/6W
R426	1-249-423-11	CARBON	3.3K	5%	1/6W
R427	1-249-430-11	CARBON	12K	5%	1/6W
R428	1-249-423-11	CARBON	3.3K	5%	1/6W
R429	1-249-411-11	CARBON	330	5%	1/6W
R430	1-249-431-11	CARBON	15K	5%	1/6W
R431	1-247-887-00	CARBON	220K	5%	1/4W
R432	1-249-435-11	CARBON	33K	5%	1/6W
R433	1-249-435-11	CARBON	33K	5%	1/6W
R434	1-249-429-11	CARBON	10K	5%	1/6W
R435	1-249-427-11	CARBON	6.8K	5%	1/6W
R436	1-249-441-11	CARBON	100K	5%	1/6W
R437	1-249-417-11	CARBON	1K	5%	1/6W
R438	1-249-437-11	CARBON	47K	5%	1/6W
R439	1-247-883-00	CARBON	150K	5%	1/4W
R440	1-249-409-11	CARBON	220	5%	1/6W
R500	1-249-413-11	CARBON	470	5%	1/6W
R501	1-249-399-11	CARBON	33	5%	1/6W
R502	1-249-428-11	CARBON	8.2K	5%	1/6W
R503	1-249-433-11	CARBON	22K	5%	1/6W
R504	1-249-430-11	CARBON	12K	5%	1/6W
R505	1-249-425-11	CARBON	4.7K	5%	1/6W
R506	1-249-421-11	CARBON	2.2K	5%	1/6W
R507	1-249-441-11	CARBON	100K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R508	1-249-437-11	CARBON	47K	5%	1/6W
R509	1-249-437-11	CARBON	47K	5%	1/6W
R510	1-249-433-11	CARBON	22K	5%	1/6W
R511	1-249-437-11	CARBON	47K	5%	1/6W
R513	1-249-437-11	CARBON	47K	5%	1/6W
R514	1-249-429-11	CARBON	10K	5%	1/6W
R515	1-249-429-11	CARBON	10K	5%	1/6W
R516	1-249-401-11	CARBON	47	5%	1/6W
R517	1-249-421-11	CARBON	2.2K	5%	1/6W
R518	1-249-414-11	CARBON	560	5%	1/6W
R519	1-249-414-11	CARBON	560	5%	1/6W
R520	1-249-414-11	CARBON	560	5%	1/6W
R521	1-249-417-11	CARBON	1K	5%	1/6W
R522	1-249-423-11	CARBON	3.3K	5%	1/6W
R523	1-249-423-11	CARBON	3.3K	5%	1/6W
R524	1-249-417-11	CARBON	1K	5%	1/6W
R525	1-249-441-11	CARBON	100K	5%	1/6W
R526	1-249-441-11	CARBON	100K	5%	1/6W
R527	1-249-433-11	CARBON	22K	5%	1/6W
R528	1-249-433-11	CARBON	22K	5%	1/6W
R529	1-249-433-11	CARBON	22K	5%	1/6W
R530	1-249-408-11	CARBON	180	5%	1/6W
R531	1-249-408-11	CARBON	180	5%	1/6W
R532	1-249-420-11	CARBON	1.8K	5%	1/6W
R533	1-249-420-11	CARBON	1.8K	5%	1/6W
R534	1-249-429-11	CARBON	10K	5%	1/6W
R535	1-249-429-11	CARBON	10K	5%	1/6W
R536	1-249-429-11	CARBON	10K	5%	1/6W
R537	1-249-413-11	CARBON	470	5%	1/6W
R538	1-249-438-11	CARBON	56K	5%	1/6W
R550	1-215-460-00	CARBON	43K	5%	1/6W
R551	1-249-437-11	CARBON	47K	5%	1/6W
R552	1-249-414-11	CARBON	560	5%	1/6W
R553	1-249-425-11	CARBON	4.7K	5%	1/6W
R554	1-249-417-11	CARBON	1K	5%	1/6W
R555	1-202-471-00	SOLID	4.7M	5%	1/4W
R556	1-249-441-11	CARBON	100K	5%	1/6W
R557	1-249-425-11	CARBON	4.7K	5%	1/6W
R558	1-249-413-11	CARBON	470	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
RV301	1-230-504-11	RES, ADJ, CARBON 220
RV302	1-230-504-11	RES, ADJ, CARBON 220
RV303	1-230-630-11	RES, ADJ, CARBON 10K
RV304	1-228-997-00	RES, ADJ, CARBON 100K
RV401	1-230-504-11	RES, ADJ, CARBON 220
RV402	1-230-504-11	RES, ADJ, CARBON 220
RV403	1-230-630-11	RES, ADJ, CARBON 10K
RV404	1-228-997-00	RES, ADJ, CARBON 100K
RV501	1-228-991-00	RES, ADJ, CARBON 2.2K
RV502	1-228-991-00	RES, ADJ, CARBON 2.2K
RV503	1-228-990-00	RES, ADJ, CARBON 1K
RV504	1-228-990-00	RES, ADJ, CARBON 1K
RY501	1-515-529-11	RELAY
S401	1-570-716-11	SWITCH, LEAF (FWD)
S402	1-570-715-11	SWITCH, LEAF (MOTOR B+)
S403	1-570-216-11	SWITCH, LEAF (TAPE SELECT)
S404	1-571-716-11	SWITCH, LEAF (FWD)
S405	1-571-260-11	SWITCH, LEAF (REC)
S406	1-570-715-11	SWITCH, LEAF (MOTOR B+)
S407	1-571-216-11	SWITCH, LEAF (TAPE SELECT)
S501	1-516-870-00	SWITCH, SLIDE (ISS)
S502	1-554-419-21	SWITCH, PUSH (1 KEY)(DOLBY NR)
S503	1-554-371-00	SWITCH, TACT (DUBBING SPEED HIGH/NORM/OFF)
W501	1-559-820-11	CORD (WITH CONNECTOR) 13P

PACKING MATERIAL

Part No.	Description
3-881-644-00	PROTECTION BAG